

LAPIN, V. V.

USSR/Engineering Glass Industry Glassmaking Materials 21 Mar 1948

"Crystallization of Cordierite in Industrial Glass-One of Its New Defects," D. S. Belyankin, Acad; V. V. Lapin, $2\frac{1}{2}$ pp

"Dok Akad Nauk SESR, Nova Ser" Vol LIX, No 9

In studying defects in products of a glassworks, original crystallization discovered in piece of glass which on first impression taken for new formation of nephelin in the glass. Closer study revealed that it was not nephelien, but cordierite. Presents complete study of crystallization.

PA 51T11

LAPIN, V. V.

USSR/Metals Metallurgy Slags

Hay 1948

"Mervinite and 20a0'SiO₂; Their Paragenesis in One of the Slags of Ferrovanadium Production," Academician D. S. Belyankin, V. V. Lapin, 4 pp

"Dok Ak Nauk SSSR" Vol LX, No 5

Results of microscopic studies of various samples. It was determined that two samples studied contained same quantity of minerals but quality varied. Results obtained in studies can be adopted for use in constructing diagrams for CaC-FgC-SiO2 in connection with problem of utilizing metallurgical slag as technological bonding agents. Submitted 17 Mar 1948.

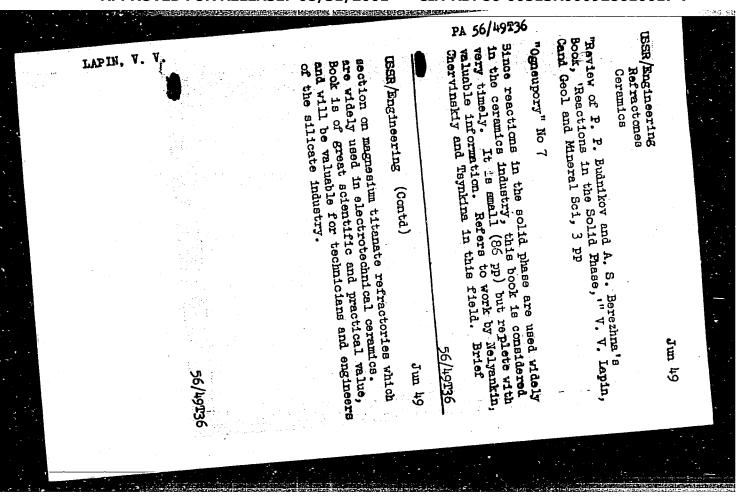
PA 68T92

Synthetic alumina. D. S. Belyankin and V. V. Lapin. Zapink: Vissoyus. Mineral. Obshehestra (Mém. soc. russe minéral.) 77, 45-9(1048). — Microscopic details of different alumina products, prepal. from an industrial electro-corsundum ("Korux") and a llayer alumina are described, and chem. analyses given. The presence of \$\textit{g}\$-Alpt, indicates the notable CaO and alkali content; up to 20% \$\textit{g}\$-corundum is observed, confirmed by x-ray analysis. Thermal analysis detected two endothermal effects, characteristic of gibsite and bochmite in the hydrous industrial products. The x-ray analysis confirmed the presence of \$\textit{g}\$-corundum, \$\textit{g}\$-alumina, bochmite, and \$\textit{g}\$-alumina. The microstructure of corundum insulator hodies is described, esp. their content in glass and gas inclusions. W. E.

LAPIN, V. V.

26415 Mineralogicheskiy analiz portandtsementnogo klinkera v polirovannykh shlifakh. Sbornik nauch. Rabot po vyazhushchim materialam. m, 1949, s. 123-27.

SO: LETOPIS' NO. 35, 1949 CIA-RDP86-00513R000928610017-7"



LAPIN, V, V,

USSR/Metals

Aluminum Titanium Apr 49

"Lower Titanium Oxides in Slags Produced by Aluminothermy," Acad D. S. Belyankin, V. V. Bogolynbov, V. V. Lapin, 4 pp

"Dok Ak SSSR" Vol LXV, No 5

Assumes the following three processes must occur during aluminothermy (1) 3TiO₂ +4Al = 3Ti +2Al₂O₃, (2) 6TiO₂ + 2Al = 3Ti₂O₃ +Al₂O₃, and (3) 3TiO₂ +2Al = 3TiO +Al₂O₃. States that expenditure of 0.188 kg of aluminum per kg titanium is required for reduction of titanium dioxide to sesquioxide according to reaction (2), which is confirmed in practice. Attempts to determine mineralogical forms in which these oxides are contained, and also to decide if some other nonoxygenous compound of titanium emerges, particularly titanium nitride (TiN), which also is stable at high temperatures.

Submitted 17 Feb 49

PA 39/49T92

LAPIN, V.V

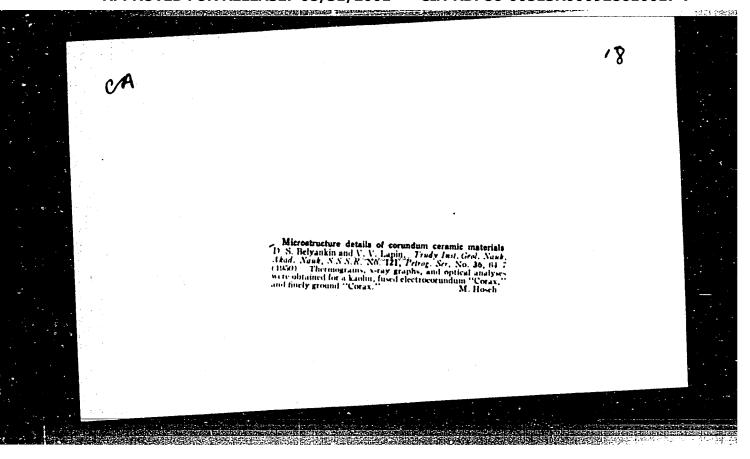
Bilicates

Liquefaction of some phosphorus and fluorine containing silicate fusion. Trudy Inst. geol. mauk AN SSSR No. 106, 1949

Monthly List of Russian Accessions, Libraryof Congress, December, 1952 UNCL.

LAPIN, V. V.

Zirconlum dioxide in mullite refractory. D. S. Belyankin and 🕊. V. Lapin. Doklady Akad. Nauk S.S.S.R., 73 [2] 367-69 (1950) .--Mullite refractory, made by the electric melting of a charge of kaolin, bauxite, and Zr concentrate, was subjected to chemical and petrographic analyses. The Zr was assimilated by the melt and forn ad crystals of ZrO,, the well developed skeletons of which filled the microstructure of the refractory. The mullite had a characteristic pleochroism, from colorless to azure, with a higher index of refraction ($n_a = 1.659$ and $n_y = 1.678$) than normal mullite. In transmitted light, the glass was slightly brownish; index of refraction was not constant. This glass should be rich in silicic acid compared with mullite. In transmitted light, the ZrO2 appears as small chains and branches of prominent crystallites, of pyramidal-octahedral shape and birefracting with crossed Nicols. The index of refraction was over 2.00 which is close to that of baddeleyite. Corundum had its usual optical characteristics, but it showed crystals and fragments of crystals. The general impression was that the corundum separated from the charge first at maximum temperatures but, upon cooling. it lost its equilibrium with the melt and reacted with it. The ZrO2 can improve the refactory, but the structure is not sufficiently uniform. 2 photomicrographs.



CIA-RDP86-00513R000928610017-7 "APPROVED FOR RELEASE: 08/31/2001

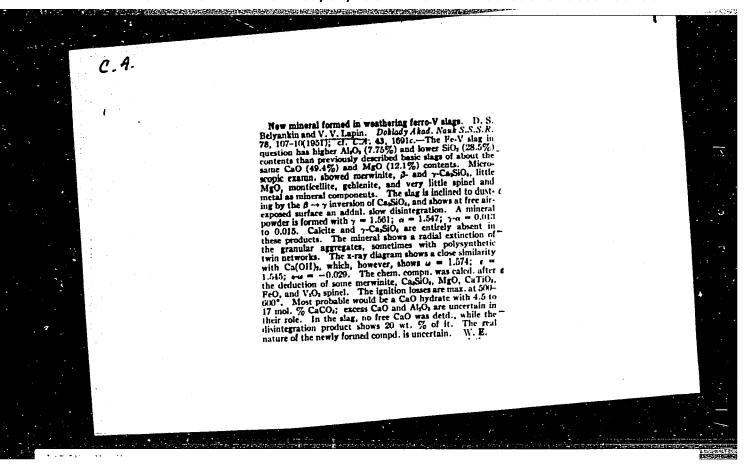
LAPTY, V.V.

petrology

Development of technical petrography in the years of Stalin's five-year plans., Izv. AN SSSR Ser. geol., no. 6, 1951

Library of Congress, March 1952. UNCLASSIFIED. MONTHLY LIST OF RUSSIAN ACCESSIONS.

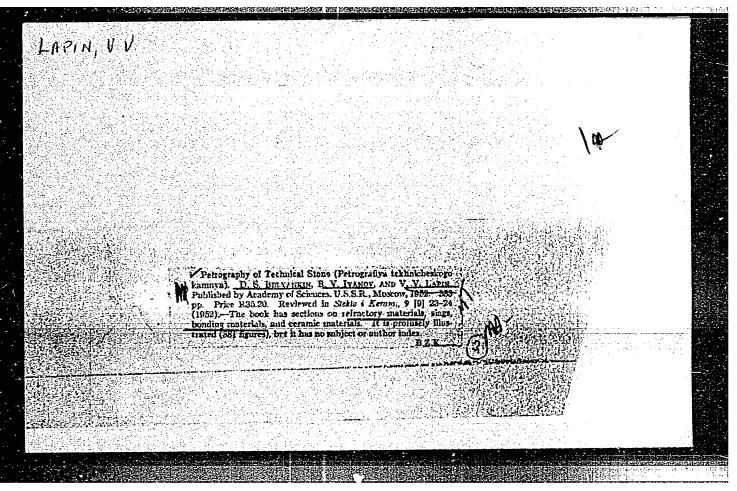
CIA-RDP86-00513R000928610017-7" APPROVED FOR RELEASE: 08/31/2001

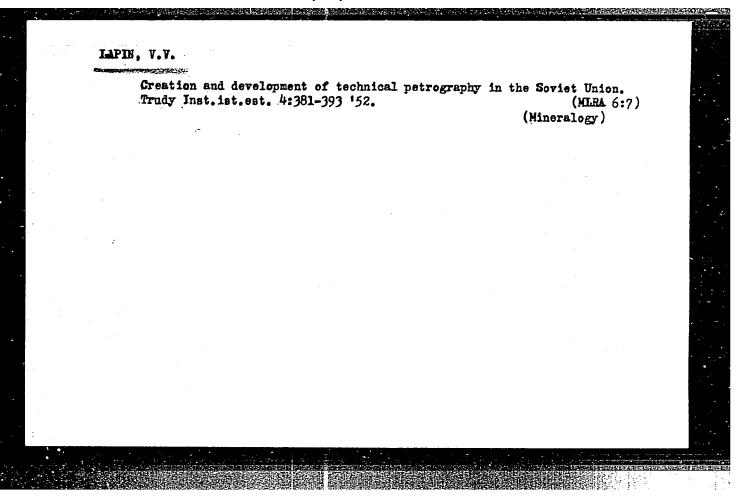


LAPIN, V. V.

Mineralogy of anosovite. D. S. Belvankin and V. V. Lapin. Doklady Akad. Nauk S.S.S.R. 80, 421-4(1951); cf. Rusakov and Zhdanov, C.A. 45, 6452a; Sigurdson and Cole, C.A. 44, 1318h.—Anosovite is the name for the synthetic crystal phase of the compn. TiO.2TiO2 occurring in Ti-rich blast-furnace slags. The orthorhombic elementary cell is ao = 3 '47; bo = 9.466; co = 9.715A. The mineral isolated from the slags is usually not pure but a solid soln. with (Mg, Fe, Mn)0,2TiO2; some excess TiO2, and Al2O3.—TiO2, as calcd. from the chem. analyses. The excess of TiO2, as calcd. from the chem. analyses. The excess of TiO2 in MgO.2T O2 may go up to a mol. ratio MgO; TiO2 = 1:4.4. Crystals of a synthesis at 1300 to 1400° are described; black crystals, with sp. gr. about 4.16: = 2.32 0.05; = 2.19 0.03. By heating in open air to 800 to 900°, free rutile is formed. The microscopic examn. of Ti slags (with 28 to 32% SiO2; 30.6 to 31.6% TiO2; 17-18% CaO; about 3% FeO; 3.4% MgO) showed abundant sphene (n about 1.923) and anosovite in a dark glass (n =-1.55 to 1.56), the latter mineral as acicular phenocrysts. The x-ray powder diagrams of anasovite and MgO.2TiO3 are nearly identical in the calcd. d.-spacings. W. Eitel

science and invention tific books, and text	in Prizes (of the Council of Minic is aunounces that the following sci- books have been submitted for comp 653. (Sevetskays Kulturs, Moscow,	entifle works, popular sciens etition for Etalin Prices for	
Name	Title of Work	Mominated by	
Belyankin, D.S. Ivanov, B.V. Lapin, V.V.	Petrography of Engineering Stone"	Institute of Geological Sciences Adademy of Sciences USSR	
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90: F-30 604, 7 3633	1954		





LAPIN, V. V.

USSR/Engineering - Petrography

Dec 52

"Review of 'Petrography of Technical Stone,'" (reviewed by P. P. Budnikov)

Ogneupory, No 12, pp 568-571

Review of "Petrografiya Tekhnicheskogo Kamnya," by Acad D. S. Belyankin, B. V. Ivanov, and V. V. Lapin, published by Acad Sci USSR, 1952, 583 pp. According to reviewer, book is first work on problems of technical petrography. States this independent branch of petrographic science was created by Soviet scientists in answer to requirements of industry. Book is purposely limited to information on major and well studied varieties of tech stone-refractories, ceramic products, slags, nonmetallic inclusions in steel, binders, and components of industrial glass. Other types, such as abrasives, glazes, enamels, and silicate and red bricks, will be included, acc to authors' intention, in next edition. Based mainly on original investigations by authors, book shows general progress of tech petrography, reviewing other works of Soviet scientists. Authors also use, for sake of completeness, some non-Soviet sources, criticizing their incorrectness and unsubstantiated conclusions. Bibliography includes 959 titles. Reviewer evaluates book highly, stating that Acad Belyankin is considered creator of tech petrography in Soviet Union, and two coauthors are his closest followers, having worked with him in field of tech petrography for more than 20 years.

267769



Zirconium dioxide - new type of stone in glass. Doklady Akad. Keuk S.S.S.R. 84(3)567-9 152. (MIRA 5:6) (CA 47 no.19:10188 153)

AFANAS'YEV, G.D., doktor geologicheskikh-mineralogicheskikh nauk, redaktor;

BARSANOV, G.P., redaktor; VOROB'YEVA, O.A., redaktor; ZAIESSKIY, B.V.,

redaktor; LAPIN, V.V., redaktor; LEBELEV, A.P., redaktor; NALIVKIN,

V.V., akademik, redaktor; PETROV, V.P., redaktor; TSVETKOV, A.I.,

redaktor; DOLGOPOLOV, N.N., sostavitel'.

[Problems in petrology and mineralogy] Voprosy petrografii i mineralogii. Vol. 2, Moskva, 1953. 496 p. (MIRA 7:4)

1. Akademiya nauk SSSR.

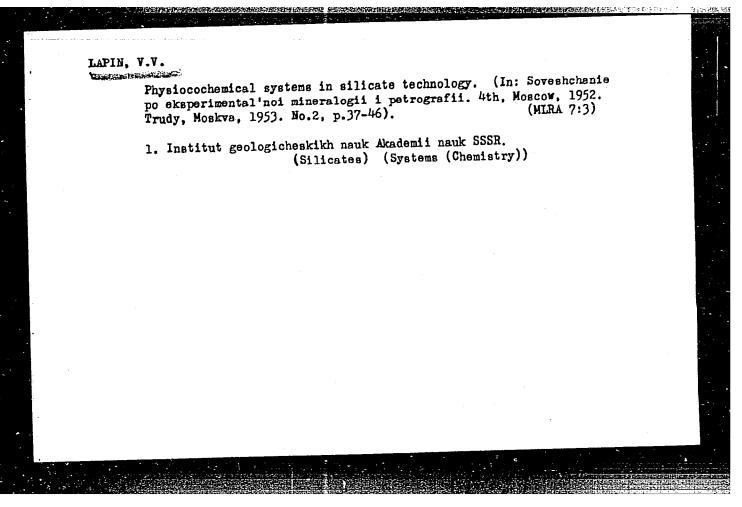
(Petrology) (Mineralogy)

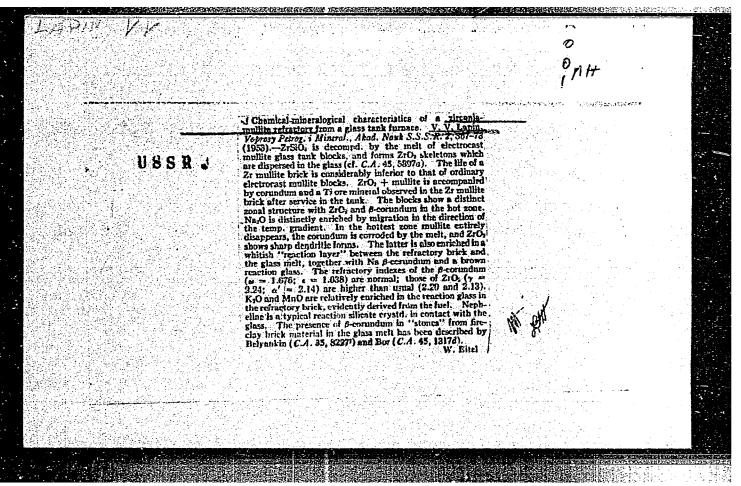
AFANAS'YEV, G.D., doktor geologicheskikh-mineralogicheskikh nauk, redaktor;
BARSANOV, G.P., redaktor; VOROB'YEVA, O.A., redaktor; ZALESSKIY, B.V.,
redaktor; LAPIN, V.V., redaktpr; LEBEDEV, A.P., redaktor; NALIVAIN,
V.V., akademik, redaktor; PETROV, V.P., redaktor; TSVETKOV, A.I.,
redaktor; DOLGOPOLOV, H.N., sostavitel'.

[Problems in petrology and mineralogy] Voprosy petrografii i mineralogii. Vol. 1, Noskva, 1953. 515 p. (MIRA 7:4)

1. Akademiya nauk SSSR.

(Petrology) (Mineralogy)





LAPIN, V. V.

262T42

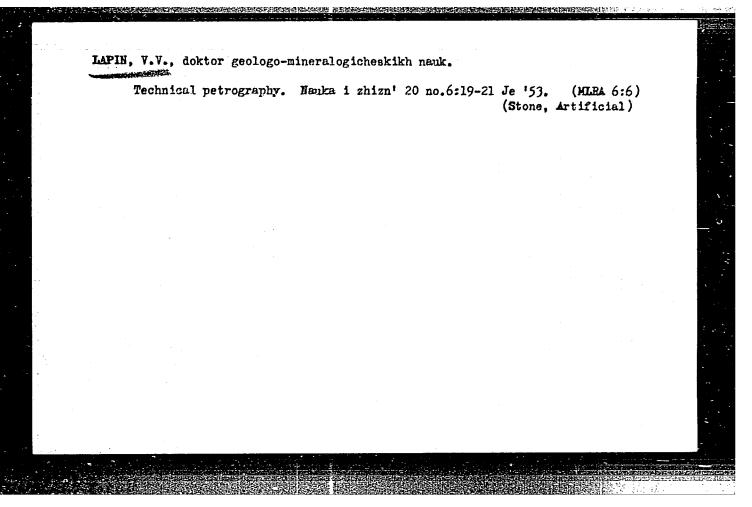
USSR/Geology - Obituary

Jul/Aug 53

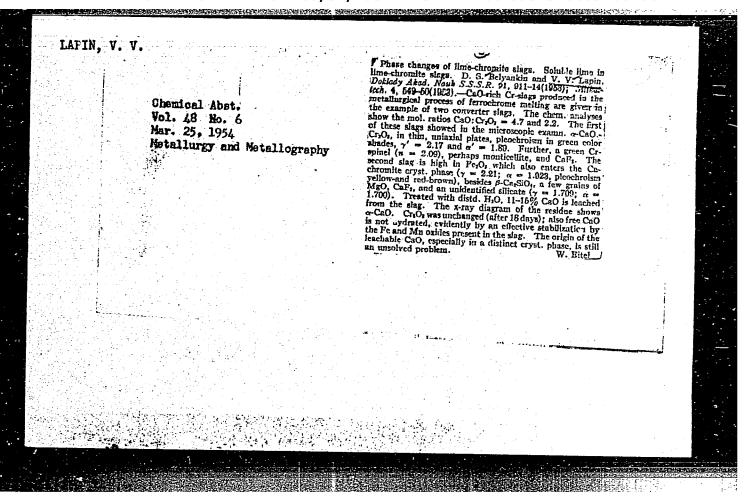
"Academician Dmitriy Stepanovich Belyankin (Obituary)," G. D. Afanas'yev, B. P. Belikov, O.A. Vorob'yeva, B. V. Zalesskiy, V. V. Lapin, V. P. Petrov

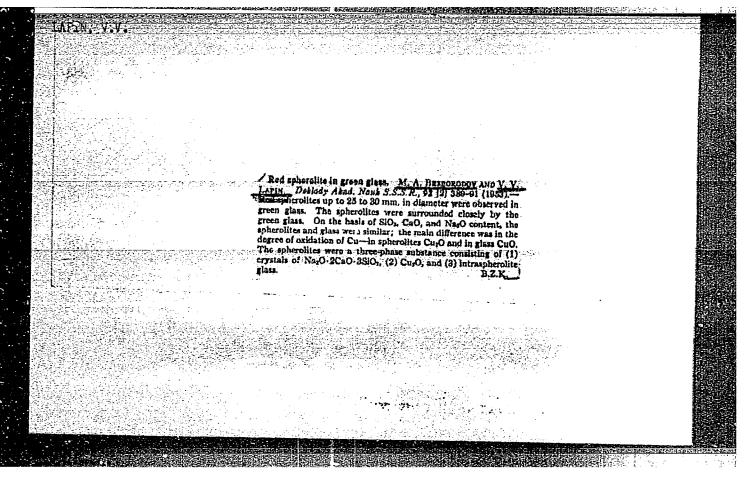
Iz Ak Nauk SSSR, Ser Geol, No 4 pp 5-12

Announce demise of D. S. Belyankin (23 Aug 1876-20 Jun 1953), prominent geologist and petrographer of USSR.



Fuel Abst. Vol. 15 No. 4 Apr. 1954 Steam Raising and	1,3050. PROPERTIES OF AGGLOIERATED FIREDOX SLAGS AND CINDERS. Lapin, V.V. and Elinzun, H.P. (Etroit, Prom. (Constr. Ind.), 153, vol. 31. (6), 37, 36; abstr. in Chem. Abstr., 193, vol. 47, 11691). Firebex combustion residues contain coked conl particles, unburned conl, sulphides, unburned and burned clay particles, and sinilar substances. This material after being subjected to agglomeration calculation to burn off combustibles and dead burn the clay makes a sultable filler for light duty concrete.				
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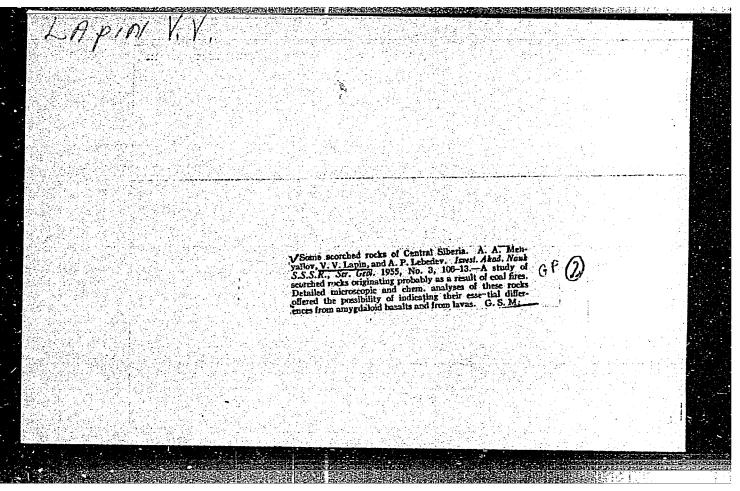


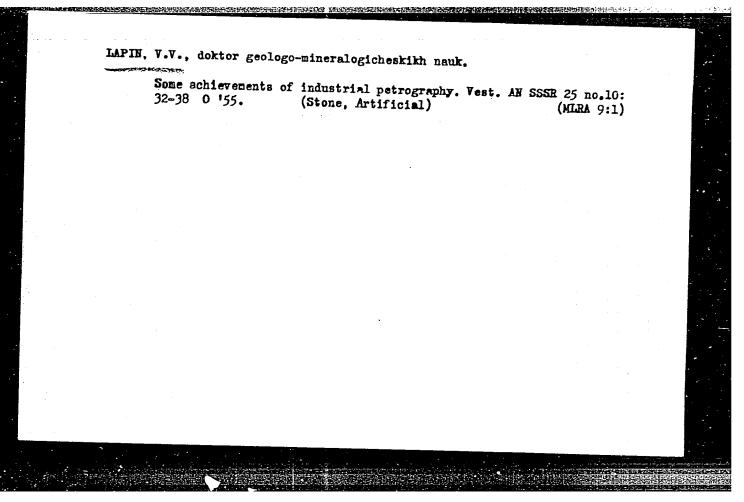


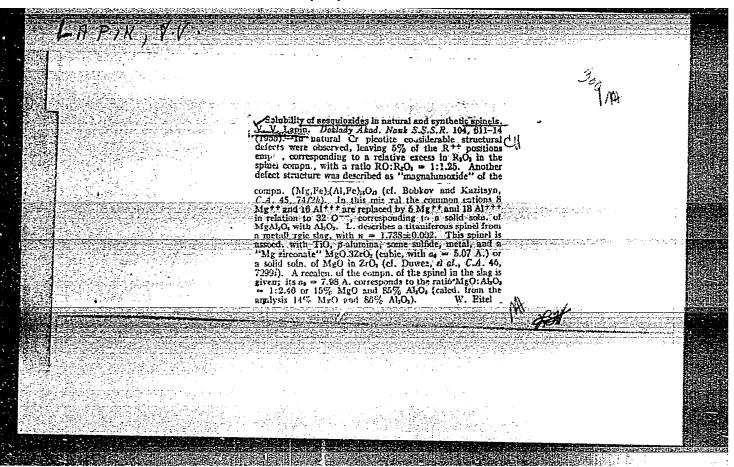
DELYANKIN, D.S.; LAPIN, V.V.; TOROFOV, N.A., doktor tekhnioheskikh nank, redaktor; TSVETKOV; ETF., doktor geologo-miner. nauk, nauchnyy redaktor; SOKOISKIY, I.F., redaktor; PANOVA, L.Ya., tekhnicheskiy redaktor. [Physical chemistry and technology of silicate systems] Fisiko-khimicheskie sistemy silikatnoi tekhnologii. Pod red. N.A. Toropova. khimicheskie sistemy silikatnoi tekhnologii. Pod red. N.A. Toropova. Moskva, Gos. izd-vo lit-ry po stroitel'nym materialam, 1954. 370 p. (Silicates) (Systems (Chemistry)) (Silicates) (Systems (Chemistry))

•	LAPIN, V. V.	AND	Harris and the second section of the section o		法国民主 的任务的	
	Chemical Abst. Vol./48 No. 9 May 10, 1954 General and Physical	Chemistry	Dmitril Stepanovich Be-Bereznod, O. K. Botyme Kyan, K. P. Goryalnov, akil, V. G. Kukolev, V. W. Moskvin, S. A. Micholov, Pevzner, H. G. Strainfaeveych, Zau, Priklod, with portrait and summary istry and the silicates.	alyankin. P. P. Budnik in. S. S. Davydov, Kh. (J. P. Kuprianoy, I. I. Z. Iapin, A. A. Litvakovsk V. M. Yung, and M. Khim. 27, 3-4(1954)	Chem. D. Gevor- Lalgorod- II, V. M. Jap. R. L. D. Vitch. Obituary	
			istry and the silicates.	G. M. Kos	g-2-5%	
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RANGE OF THE PROPERTY OF THE P LAPIN, V. V. USSR/Chemistry - Chemical Technology Card 1/1 Authors Lapin, V. V. Title The mineralogy of alumino-barium slago Periodical Dokl. AN SSSR, 96, Ed. 5, 1037 - 1039, June 1954 Abstract : Special characteristics of alumino-barium slags derived during the smelting of alumino-barium alloys are described. The pulverization of the slag is connected with the hydration of the barium oxide, and the turbulent gas separation during the effect of water. Three references. Tables, drawings. Institution: Presented by: Academician, D. I. Shcherbakov, April 3, 1954







TSVETKOV, Aleksey Ivanovich; VAL'YASHIKHINA, Yelizaveta Pavlovna; SHCHERBAKOV, D.I., akademik, redaktor; LAPIN, V.V., redaktor; KUH, N.R., redaktor; PAVLOVSKIY, A.A., tekhnicheskiy redaktor.

[Materials on the thermal investigation of minerals] Materialy petermicheskomu issledovaniiu mineralov. No.3: Sliudy. Moskva, Izd-vo Akademii nauk SSSR, 1956. 107 p. (Akademiia nauk SSSR. Insitut geologii rudnykh mestorezhdenii, petrografii, mineralogii i geokhimii, Trudy, ne. 4)

(MIRA 9:10)

(Hica)

(Thermal analysis)

LAPIN, Vladimir Vaciliusvich: AFANAS'YEV, G.D., redaktor; TSVETKOV, A.I., redaktor; IWANOV, B.V., redaktor; POLIVANOVA, Ye, B., tekhnicheskiy redaktor.

[Petrography of metallurgical and fuel slags]Petrografiia metallurgicheskikh i toplivnykh shlakov. Moskva, Izd-vo Akademii nauk SSSR, 1956. 323 p. (Akademiia nauk SSSR. Insitut geologii rudnykh mesterozhdenii, petrografii, mineralogii i geokhimii. Trudy, ne.2) (MIRA 9:10)

1. Chlen-korrespondent AN SSSR (for Afanas yev).
(Slag) (Petrology)

BELYANKIN, Dmitriy Stepanovich, akademik; IVANOV, B.V., redaktor; LAPIN, V.V., redaktor; TSVETKOV, A.I., redaktor; ASTROV, A.V., redaktor izdatel stva; MOSKVICHEVA, N.I., tekhnicheskiy redaktor

[Selected works] Izbrannye trudy. Moskva, Izd-vo Akademii nauk SSSR. Vol.1. 1956. 844 p. (MIRA 9:9) (Petrology)

SOV/137-57-10-18887

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 66 (USSR)

AUTHOR: Lapin, V.V.

TITLE:

Structure and Phase Constitution of Blast-furnace Slags Considered in Connection With the Practical Utilization Thereof (Stroyeniye i fazovyy sostav domennykh shlakov v svyazi s ikh prakticheskim ispol'zovanivem)

PERIODICAL:

V sb.: Domennyye shlaki v str-ve. Kiyev, Gosstroyizdat UkrSSR, 1956, pp 60-77

ABSTRACT:

A study was made of the mineralogy and microstructure of specimens of paving blocks (B) made at the Chelyabinsk Metallurgical Plant by pouring molten blast-furnace slag out of the ladle into iron molds mounted in special casting pits. It is found that the compressive strength of the B is substantially dependent upon its particular mineralogical composition and structure. A most important mineralogical component of slag B is helenite, which may crystallize either as large idiomorphic crystals or as small crystals of indeterminate form, or in skeletal formations. B have also been found to contain pyroxenes, finely-dispersed sulfides, and glass. The greatest

Card 1/2

SOV/137-57-10-18887

Structure and Phase Constitution of Blast-furnace Slags (cont.)

compressive strength (up to 1330 kg/cm²) is that of light gray slag B of fine granular microstructure, the bulk of which consists of a pyroxene mineral (probably augite) and which contains a relatively smaller amount of helenite. Blocks of this type are characterized by a higher alumina content (46.46%) of the slag B, related to the degree of saturation of the slag with gas, has a damaging effect upon its strength. The porosity [void ratio; Transl. Ed. Note] damaging effect upon its strength. The porosity of light gray B is usually A study is also made of the microstructure of B sometimes attains 27.6%. manufactured at the Magnitogorsk, Kuznetsk, Zhdanov, Yenakiyevo, Tula, eastern plants consists primarily of helenite and pseudo-wollastonite while wollastonite and small amounts of helenite. The structure of slag pumice

Ye.V.

Card 2/2

LAPIN, V.V.

137-1958-2-2288

S.G.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 11 (USSR)

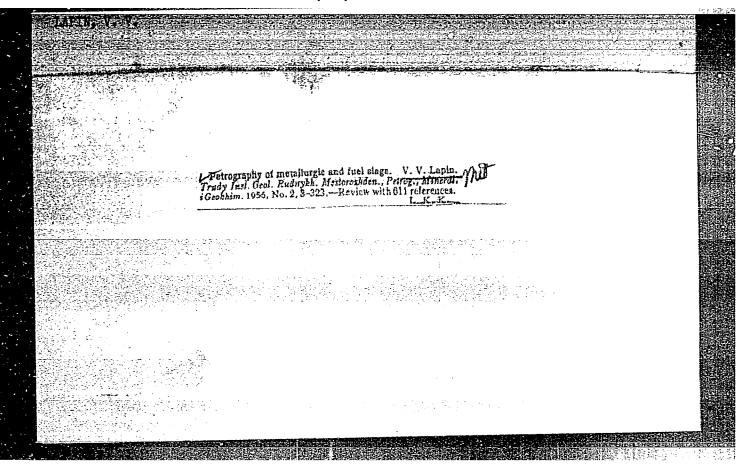
AUTHOR: Lapin, V.V.

TITLE: The Mineralogy and Some Structural Features of the Principal Varieties of Refractory and Ceramic Materials (Mineralogiya i nekotoryye strukturnyye osobennosti glavneyshikh raznovidnostey

PERIODICAL: V sb.: Fiz.-khim. osnovy keramiki. Moscow, Promstroy-

ABSTRACT: A survey is made of the phase composition and microstructure of three basic varieties of refractory and ceramic material: Dinas brick, aluminosilicate refractory materials, and the basic refractory materials (magnesite, chrome-magnesite, dolomite, and magnesiaalumina ceramic materials). Accompanying tables list the basic mineral constituents of the ceramic materials, their optical and crystallographic properties, and the ceramic products in which they are most frequently found. Bibliography: 26 references.

Card 1/1 1. Ceramic materials--Properties



LAPIN, V.V.

15-57-7-9460

Translation from:

Referativnyy zhurnal, Geologiya, 1957, Nr 7,

p 106 (USSR)

AUTHOR:

Lapin, V. V.

TITLE:

Zirconium-Bearing Slags, a New Variety of Industrial

Stone (Tsirkoniysoderzhashchiye shlaki - novaya

raznovidnost! tekhnicheskogo kamnya)

PERIODICAL:

Tr. In-ta geol. rud. mestorozhd. petrogr., mineralogii i geokhimii AN SSSR, 1956, Nr 6, pp 73-94

ABSTRACT:

The author investigated slags obtained by melting down alloys of zirconium, iron, and silicon and of these elements plus aluminum. The chief components of these slags are ZrO₂, Al₂O₃, CaO, and MgO. Some of these slags studied, in addition to the indicated of the samples studied, in addition to the indicated oxides, also contained large quantities of silica oxides, also contained large quantities were (34.66 to 35.83 percent). The following phases were (34.66 to agree agree), calcium dialuminate, recognized: magnesian spinel, calcium dialuminate,

card 1/3

APPROVED FOR RELEASE: 08/31/2001

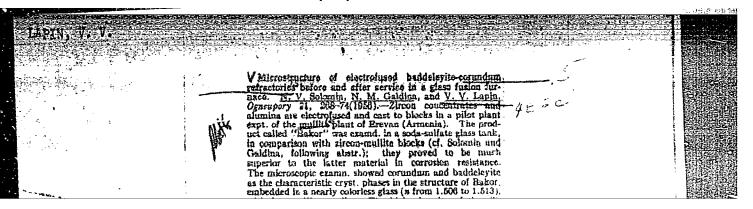
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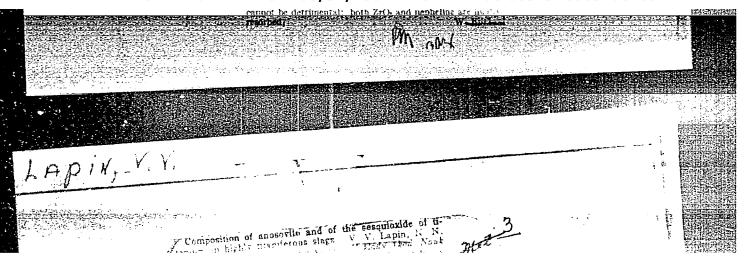
Zirconium-Bearing Slags (Cont.)

15-57-7-9460

the solid solution of zirconium dioxide. The author explains this phenomenon by the incongruent melting of zircon and also by the stabilization of the zirconium dioxide (previously crystallized) by the admixtures of CaO, MgO, and Al₂O₃. These factors prevent the formation of zircon at low temperatures. Gravitational differentiation was noted in all the slags, with magnesian spinel separating out first. The upper levels of various slag samples from 30.0 to 37.0 percent. The inverse relation was observed for the zirconium mineral: 8.6 to 11.3 percent in the lower part, 15.4 Card 3/3

N. N. Kurtseva





LAPIN, V. V., N. N. KURTSEVA and O. P. OSTROGORSKAYA

"On the Mineralogy of High Titanium Slags" p. 273

"Synthesis and Structure of Hydrostlicates containing Simple and Complete Heavy Matal Cations." p. 38

Transactions of the Fifth Conference on Experimental and Applied Mineralogy and Petrography, Trudy ... Moscov, Izd-vo AN SSSR, 1958, 516pp.

reprints of reports presented at conf. held in Leningrad, 26-31 Mar 1956. The purpose of the conf. was to exchange information and coordinate the activities in the fields of experimental and applied mineralogy and petrography, and to stress the increasing complexity of practical problems.

Lapin, V.V., Tavetkov, A.I. AUTHOR:

11-58-4-15/16

TITLE:

Yakov Iosifovich Ol'shanskiy (deceased)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958,

Nr 4, p; 104 (USSR)

ABSTRACT:

This is an obituary notice on Ya.I. Ol'shanskiy, Doctor of Chemical Sciences, head of the hydro-thermal and hypergenous experimental laboratory of the Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii (IGEM) AN SSSR (Institute of the Geology of Ore Deposits, Petrography,

of the AS USSR). Mineralogy and Geochemistry

Card 1/1

1. Chituaries - Cl'shanskiy, Ye. I.

LAPIN, V.V.

AUTHORS: Lapin, V.V., Kurtseva, N.N.

11-58-5-5/16

TITLE:

Differentiation of Silicate Melts Under Industrial Conditions and Their Geologic Significance (Differentsiatsiya silikatnykh rasplavov v proi zvodstvennykh usloviyakh i ikh geo-

logicheskoye znachen. e)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958,

Nr 5, pp 50-59 (USSR)

ABSTRACT:

This article describes the results of a large scale industrial experiment which allowed the phenomena of differentiation of silicate melts of a general petrographic interest to be observed: dressing of the upper part of the melt with iron with the crystallization of ferrous olivine, the formation of a pegmatoid structure, and the formation of the more magnesian olivine in the lower part; settling of unmelted olivine from the shist in the lower part of the slag, its consequent dressing with magnesium oxide, and the large increase of silicate melt, containing the hard phase. The differentiating process in the silicate melts is similar to the process of natural magma, especially important in the study of volcanic activity and the flow of basaltic lava. It was found that the lava flow from the

Card 1/4

11-58-5-5/16

Differentiation of Silicate Welts Under Industrial Conditions and Their Geologic Significance

> upper part of the crater of a volcano often had a more acid composition than the lava from the lower part of the crater. Their mineral composition was also different. The pyroxene from the lower part of the crater, in comparison with the pyroxene from the upper part, contained less calcium and magnesium. The olivine was more ferrous at the beginning of the flow, and more magnesian at the end. The olivine from the lava which flowed from the lowest part of the volcano contained 10 - 12% of the fayalitic components, and this content increased with the height, reaching 27% at the top of the volcano. A description of the experiments is given. The liquid slag flowing from the water-jacketed furnace was collected in a casting ladle, 2.25 m high. After cooling, the ladle was overturned, the slag broken into pieces, and samples were taken from the upper, middle and lower part. A cavity had been formed in the upper part of the block, surrounded by the coarsely crystalline slag, different from the fine-grained mass of the whole block. Mineralogic composition of the block was the same in all its parts: olivine, hedenbergite, sulfide,

Card 2/4

CIA-RDP86-00513R000928610017-7" APPROVED FOR RELEASE: 08/31/2001

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Differentiation of Silicate Melts Under Industrial Conditions and Their Geologic Significance

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magnetite and glass. The quantity of the olivine and magnetite varies noticeably in different parts of the block (Table 1). The characteristics of olivine and hedenbergite are given. Magnetite was included in the olivines and sulfide, its isolation occurring during the whole crystallizing period. The sulfides were represented mainly by the pyrrhitine and bornite. The constants of refraction of olivine and hedenbergite are given in table 2. They are always the same for hedenbergite, but have noticeable variations for the olivine. The results of a detailed chemical analysis of different parts of the block showed that its upper part contained more silica (Tables 4 and 5). The heterogeneity in the composition of the block occurred during the process of the crystallization of the slag. The crystallizing process started with the isolation of the high melting olivines with a larger content of magnesia. The residual melt, rich in iron, moved to the upper part of the melting ladle. As the crust was formed on the surface of this melt, the gas could not escape, forming the cavity in which the formation

Card 3/4

CIA-RDP86-00513R000928610017-7" **APPROVED FOR RELEASE: 08/31/2001**

11-58-5-5/16

Differentiation of Silicate Melts Under Industrial Conditions and Their Geologic Significance

> of crystals of ferrous olivine and magnetite occurred. The authors presume that the same phenomena of differentiation also occurs during crystallization of the basic and ultra basic natural magmas.

There are 8 tables, 8 photos, 2 figures, and 7 Soviet re-

ferences.

ASSOCIATION: Institut geologii rudnykh mestorozhdeniy, petrografii,

mineralogii i geokhimii AN SSSR, Moscow (Geological Institute of Ore Deposits, Petrography, Mineralogy and Geo-

chemistry of the AS USSR, Moscow)

SUBMITTED:

18 December 1957.

AVAILABLE:

Library of Congress

Card 4/4

1. Silicate-Melting-Analysis

CIA-RDP86-00513R000928610017-7" APPROVED FOR RELEASE: 08/31/2001

LAPIN, V.V.; KURTSEVA, N.N.; OSTROGORSKAYA, O.P.

Spinel, corundum (ruby), and the peculiar β-alumina in aluminothermsc slags. Trudy IGEM no.30:124-134 '58.

(Slag)

(Slag)

SOV/136-59-6-9/24

Lapin, V.V. and Kurtseva, N.N.

On the Changes of Oxidised Nickel Ores During Melting in AUTHORS: a Stack Furnace (Ob izmenenii okislennykh nikelevykh rud TITIE:

pri plavke v shakhtnoy pechi)

Tsvetnyye metally, 1959, Nr 6, pp 51 - 56 (USSR)

This article gives the results of a study by the authors PERIODICAL: ABSTRACT:

of 29 specimens from probes taken from the shaft of an experimental shaft furnace of the Yuzhuralnikel' Combine during the period when it was stopped for repairs. In Figure 1 a sketch of one of the cross-sections of the experimental shaft furnace is shown. The change in temperature along the height of the central postion of the furnace is as follows: the temperature rises slowly from approximately 100 C at the top of the furnace to 600 °C at a level 1 m from the tuyeres. Below that, it rises rapidly, attaining 1 300 °C in the tuyere zone. The experimental furnace having a cross-section of

7.2 m² in the tuyere zone was stopped when the burden was 4.8 m above tuyere level. Blast pressure during the last hours of its work was 1 250 - 1 350 mm water col.

Card1/4

On the Changes of Oxidised Nickel Ores During Melting in a Stack

A sieve analysis made before the furnace was stopped has shown the following fine fraction (\$\alpha\$ 20 mm) content of separate constituents of the charge: 13.15% in coke, 26.80% in gypsum, 26.56% in limestone and 74.89% in the agglomerate plus ore. The original ores, as well as the products of high-temperature changes of the ores, the agglomerate, gypsum and final slags were investigated. A chemical analysis of the specimens investigated is given in Table 1. The original ore found at the highest levels of the furnace (3.8 m above the tuyere level) had not changed under the influence of temperature. Probes taken from a region in the centre of the furnace, 1.8 m above the tuyeres, showed no change, thus indicating that the temperature there was below 600° C. In a probe taken from the same level of the charge but at the periphery of the furnace (specimen 3542-D), the serpentine rock, which had preserved its mesh structure, had changed considerably (Figure 2). The serpentine rock here is practically entirely amorphous; this points to a temperature of \$\frac{1}{2}\$ 800° C. In the peripheral zone of the furnace at a

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On the Changes of Oxidised Nickel Ores During Melting in a Stack

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level of 0.3 m above the tuyeres, a very sharp change in the ore is observed (specimen 3553-V - Figure 3). From the nature of the change in the ore (formation of cordierite) it is possible to deduce that the temperature of this zone (0.3 m level) is 1 100 to 1 200 °C. In Figure 4, the specimen 3553, taken 0.3 m from the tuyere level, is shown. Here, coarse pyroxene grains can be seen in the interstices of which there are elongated, skeleton-like crystals of anortite in glass. Using mineralogical criteria, the temperature distribution along the vertical and horizontal sections of the furnace has been worked out (Table 2). A microscopic study of concrete specimens has confirmed the existing idea of the "peripheral flow" in the shaft furnace. It has been found that the matte-formation (Ref 5) and slag-formation reactions are most intense in the tuyere zone and in the peripheral zones of the furnace, commencing at a level 2.4 m from the tuyeres and below. In the central zone of the furnace, these reactions occur extremely slowly because of the relatively low temperatures and increase

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On the Changes of Oxidised Nickel Ores During Melting in a Stack

Furnace

sharply only at lower levels of the furnace.

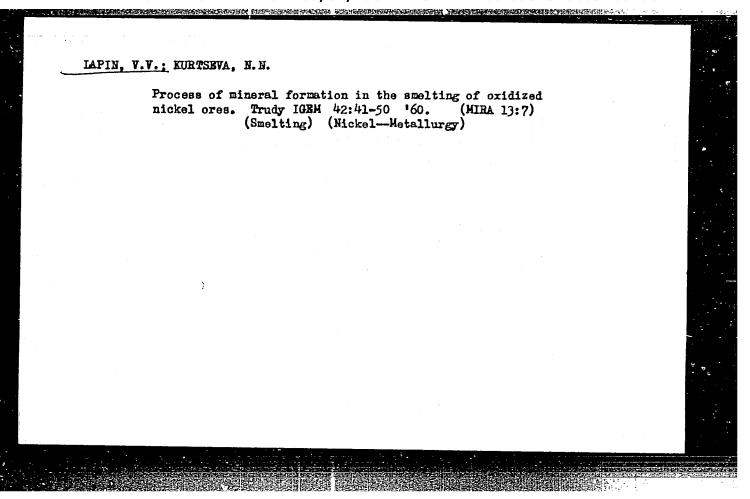
There are 4 figures, 2 tables and 5 references,

4 of which are Soviet and 1 English.

Card 4/4

Mineral composition of converter slags with high manganese and vanadium contents. Vest. AN Kazakh. SSR 15 no.4:73-77 Ap '59.

(Slag) (Manganese oxide) (Vanadium oxide).



LAPIN, V.V.; RABUKHIN, A.I.; CHERNYSHEV, V.V.

Fifect of zirconium dioxide on the crystallization of a diopsidelike cast. Izv.vys.ucheb.zav.; khim.i khim tekh. 3 no.1:193-195 160. (MIRA 13:6)

l. Kafedra obshchey tekhnologii silikatov Moskovskogo khimikotekhnologicheskogo instituta imeni D.I. Mendeleyeva. (Diopside) (Zirconium oxides)

"Album of macro- and microphotographs of refractories and raw materials used in their manufacture" by L.I.Kariakin. Reviewed by V.V.Lapin. Ogneupory 25 no.9:431-432 60.

(MIRA 13:8) (Refractory materials) (Kariakin, L.I.)

LAPIN, V.V., doktor geol.-miner.nauk; BUZHEVICH, G.A., kand.tekhn.nauk

"Using slags as aggregates for lightweight concretes" by M.P.
Riinson. Beviewed by V.V.Lapin, G.A.Buzhevich. Bet.i sheli-bet.
no.7:336-337 Jl '60. (MIRA 13:7)

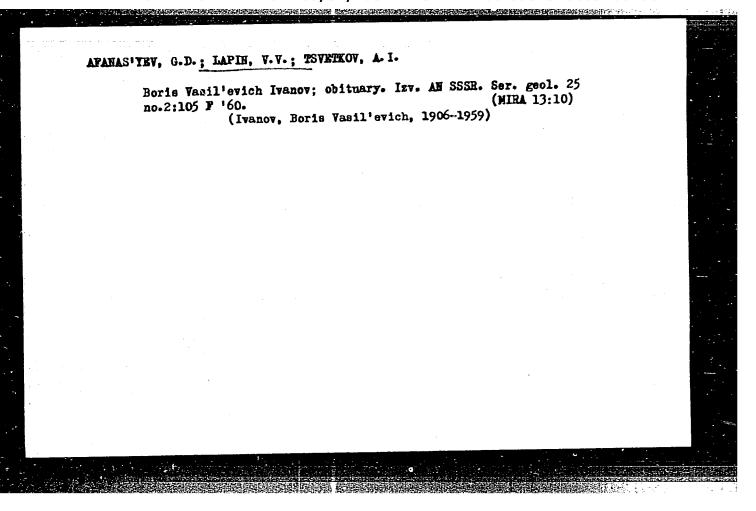
(Slag) (Idghtweight concrete)

LAPIN, V.V.; KURTSEVA, N.N.; KNYAZEVA, D.H.

A new aluminous rare-earth mineral with a perovskite structure isolated from slag. Dokl. AN SSSR 134 no.5:1192-1195 0 '60.

(MIRA 13:10)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii Akademii nauk SSSR. Predstavleno akademikom D.S.Korzhinskim. (Mineralogy)



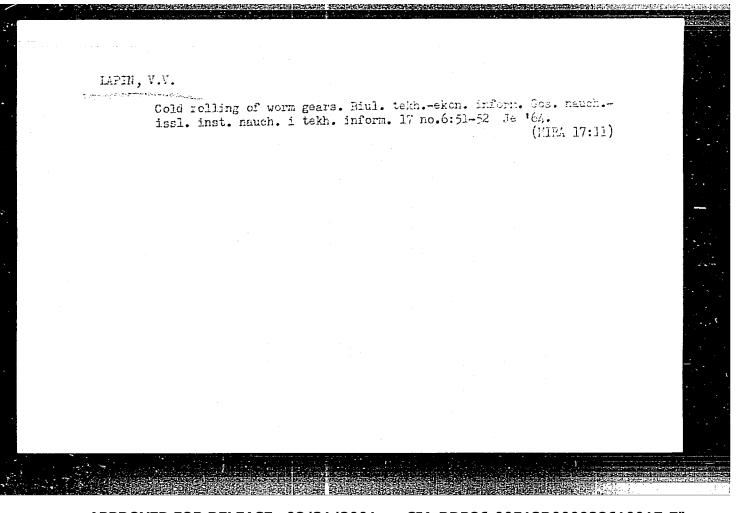
LAPIN, V.V.; KURTSEVA, N.N.; KNYAZEVA, D.N.

Britholite from cinder and gehlenite containing rare earths. Zap.-Vses.min.ob-va 90 no.6:727-731 '61. (MIRA 15:2)

LAPIN, V. V.; VALYASHIKHINA, Ye. P.; PILOYAN, G. O.; TS'ETKOV, A. I.

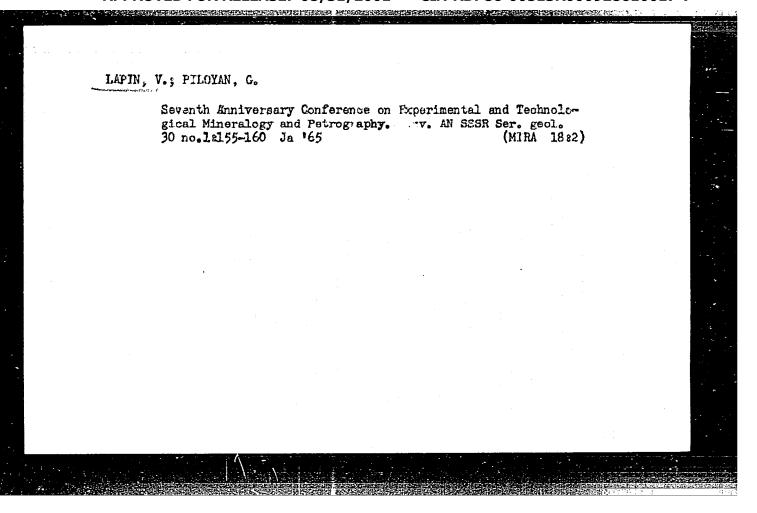
"On solid-phase interaction between carbonates and clay minerals during thermal analysis."

Report submitted for the International Clay Conference, Stockholm, Sweden, 12-16 Aug 63.



Research in experimental and technical mireralogy and petrographys conference in Lvov. Vest. AN SSER 34 no. 2:227-329 S 162.

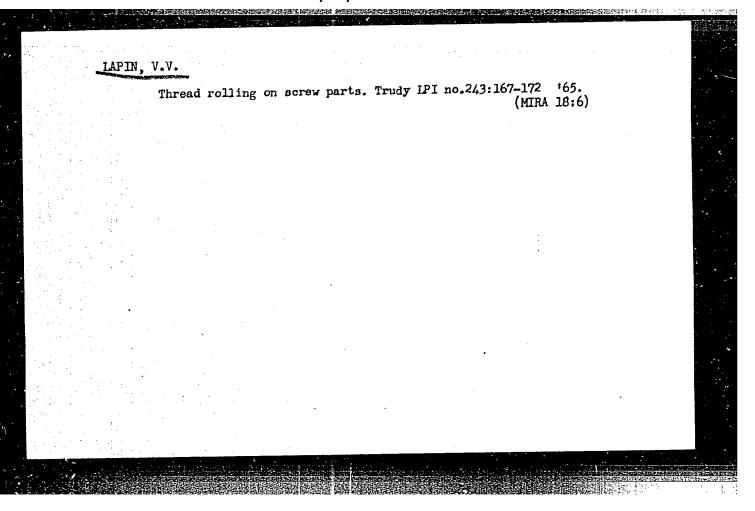
(MIRA 1/20)



TOROPOV, Nikita Aleksandrovich; BARZAKOVSKIY, Valentin Pavlovich; LAPIN, Vladimir Vasil'yevich; KURTSEVA, Nina Nikolayevna

[Constitutional diagrams of silicate systems; a handbook] Diagrammy sostoianiia silikatnykh sistem; spravochnik. Moskva, Nauka. No.1. 1965. 545 p. (MIRA 18:10)

1. Chlen-korrespondent AN SSSR (for Toropov).



DRONOVA, M.I.; MINKOV, S.I.; LAPIN, V.V.

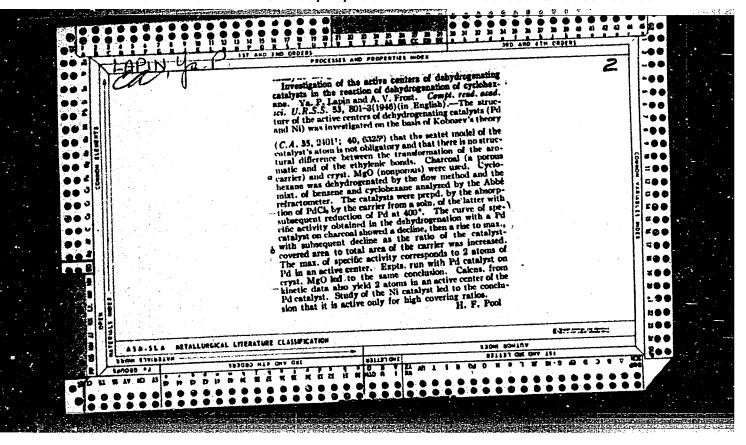
Closed abdominal trauma and acute appendicitis. Vest. khir. 94 no.1;
112-113 Ja '65.

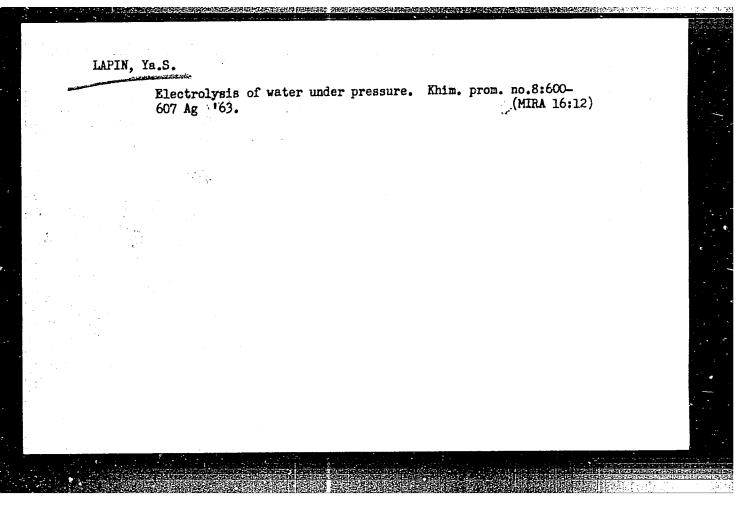
1. Iz khirurgisheskogo otdeleniya (zav. - S.I.Minkov) Skopinskoy gorodskoy bol'nitay Ryazanskoy oblasti.

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ACC NR: ANI6004712 Monograph UK, Toropov, Nikita Aleksandrovich; Barzakovskiy, Valentin Pavlovich; Lapin, Vladimir Vasil'yevich; Kurtseva, Nina Nikolayevna Diagrams of silicate compounds; a handbook. no. 1: Binary systems (Diagrammy sostoyaniya silikatnykh sistem; spravochnik. vyp. 1: Dvoynyye sistemy. Noscow, Izd-vo "Nauka", 65. 0545 p. illus., biblio., index. (At head of title: Akademiya nauk SSSR. Institut khimii silikatov im. I. V. Grebenshchikova) Errata slip inserted. 4,200 copies printed. TOPIC TAGS: phase diagram, oxide system, rare earth oxide, silicate, binary oxide system, metal-oxide system inorganic oxide, tirongallary PURPOSE AND COVERAGE: This handbook is intended for industrial specialists, design-shop employees, and research organizations connected with the manufacture and use of materials based on oxides. The present volume contains data on binary silicate and other oxide systems which are essential in the manufacture of ceramics, refractories, electrical-engineering materials, structural and other materials. The text includes phase diagrams, stability regions of phases or individual compounds, and numerous tables. Each chapter is provided with references. Cord 1/2

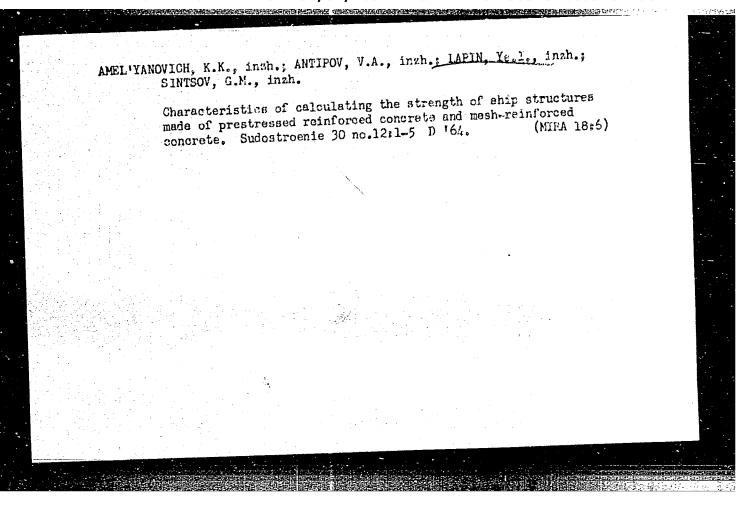
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TABLE OF CONTENTS [abridged]:			
Preface by N. A. Toropov 3 Introduction to the first issue 5 One-component systems 7 Binary systems 23 Supplement 499 Alphabetical index of systems 535			
SUB CODE: 11,07/ SUBM DATE: 15Sep65/	orig ref: 39	8/ OTH REF:	831/
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Card 2/2			





SEREBRENNIKOV, B.N., inzh.; LAPIN, Ye.I., inzh.

Results of static testings of an experimental pontoon of prestressed heavy reinforced concrete. Sudostrenie 29 no.9:45-48 S '63. (MTA: 16:11)



		8 N. P. (1995 Mag)
	PA 228T68	
LAPIN, YE. M.	USSR/Engineering - Construction, 2 May 52 Methods "Utilization of Concrete Reinforcement and Mold Blocks," Ye, M. Lapin, Engr, Yuzhenergostroy Trust, Min of Elec Power Stations "Byul Stroit Tekh" No 9, pp 3-6 Describes method for erecting concrete structures, using large prefabricated sections of reintons in wt. Method considerably simplifies and accelerates construction works. States that all accelerates construction works. States that all accelerates that such accelerates under construction by Yuzhenergostroy are using method described.	
William Committee		
		2년 기가 관취

LAPIN, Ye. M.

USSR/Mondow Science.

L.

Abs Jour

: Ref Zhur - Biol., No 4, 1958, 15447

Author

: Ye.M. Lapin

Inst Title

Methods of Setting Up Cultivated Meadows in the Arid

Valley of Vologodskaya Oblast'.

(Priemy sozdaniya kuliturnykh lugov na sukhodole v

Vologodskoy oblasti).

Orig Pub

: Zemledeliye, 1957, No 4, 32-37

Abstract

The Vologodskaya State Selection Station set up on its plot in 1949 two year long research on methods of creating artifical meadows and methods of retaining their productivity. A part of the plot was sown with perennial grasses (grains and leguminous plants) and was used to study the effect of various fertilizers. The strong action especially of NPK and the organic-mineral fertilizers

was shown on boosting the meadow yelding power.

Card 1/2

USSR/Farm Animals - General Problems.

Q-1

Abs Jour

: Ref Mhur - Biol., No 10, 1950, 83270

Author

: Lapin, Ye.M.

Inst

: Vologda State Institute of Pedagogies.

Title

: Nothods of Developing Cultivated Meadows and Pastures in

the Horth.

Orig Pub : Uch. Map. Vologodsk, Cos. ped. in-ta, 1957, 20, 231-263.

Abstract : No abstract.

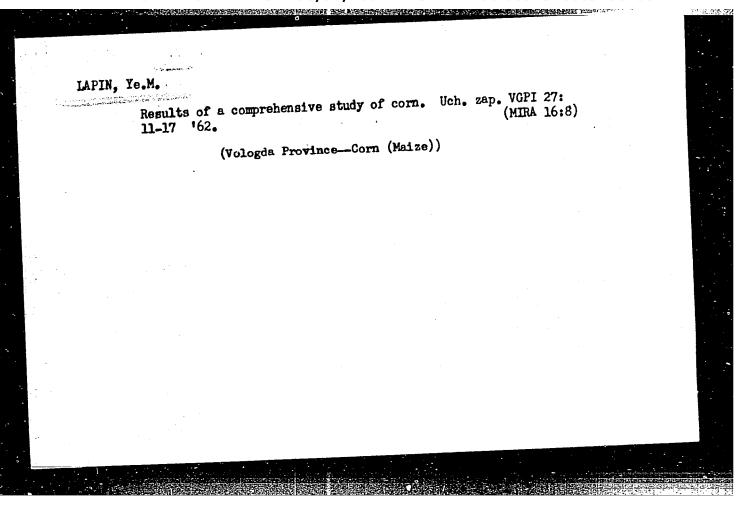
Card 1/1

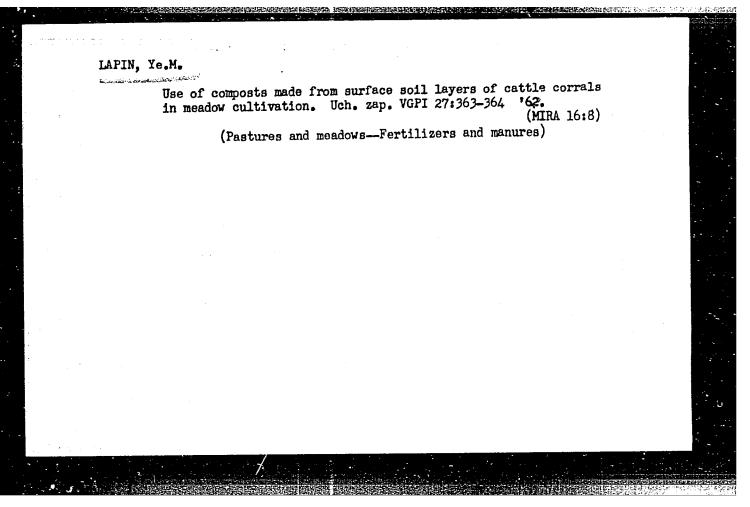
LAPIN, Ye.E., Cand Agr Sci-(diss) "Cortain methods of the orantion of cultivated meadows under conditions of Volegodskaya Galartya."

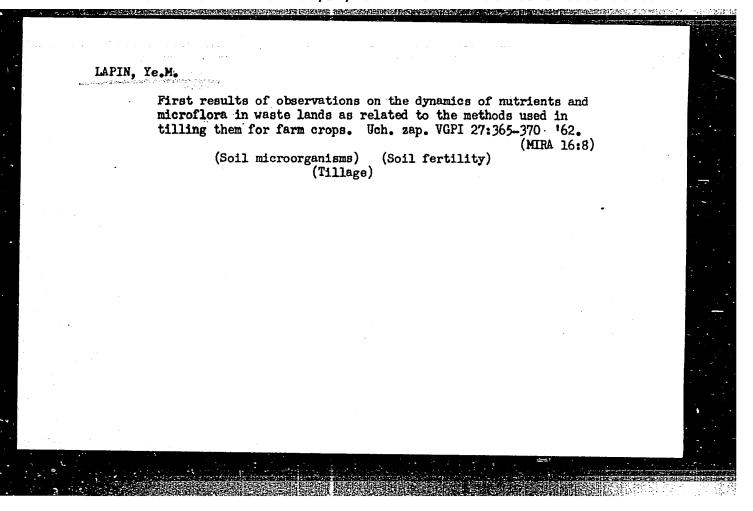
Nos, 1958. 24 pp (All-Union Sci Res Inst of Fodder im V.P.Vil'yams),

150 copies (KL, 49-58, 125)

-7/-







KKEHNOVER, F., insh.; LAPIN, Yu., arkhitektor

Embankment of the Sura River in Pensa. Zhil.-kom. khos. 12
no.5:33 My 162. (MIRA 15:10)

(Penza.-Embankments)

LAPIN, Yu.A.; ZHIROVA, L.G.; VESELOV, A.Ya.

Treatment of acute and suppurative inflammations of the female pelvis minor with tetracycline hydrochloride.

Antibiotiki 7 no.4:362-366 Ap 162. (MIRA 15:3)

LAPIN, Yu.A.; MURAV'YEV, Ye.V.

Nomograph for determining the interpolating multiplier. Biul.VAGO no.32:52-54 '62. (MIRA 15:11)

1. Novosibirskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva.

(Nomography (Mathematics))

LAPIN, Yu.A.

Rare cases of chronic injury of the urinary tract sub coiti in vaginal aplasia. Zdrav. Kazakh. 21 no.11:72-74 '61. (MIRA 15:7)

1. Iz zhenskoy konsulitatsii g. Leninogorska i meditsinskoy sanitarnoy chasti Leninogorskavinetsstroya.

(VAGINA-ABNORMITIES AND DEFORMITIES)

(URETHRA-WOUNDS AND INJURIES)

UVAROV, V.V., doktor tekhn. nauk. prof.; BEKNEV, V.S., kand. tekhn. nauk; MIKHAL'TSEV, V.Ye., kand. tekhn. nauk; CHERNOBROVKIN, A.P., kand. tekhn. nauk; LAPIN, Yu.D., inzh.; CHEREPNIN, L.S., inzh.

Highly efficient gas turbine unit with 200Mw. rating. Teploenergetika 12 no.5:7-16 My '65. (MIRA 18:5)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.

PROPERTY OF THE PROPERTY OF TH **6000 是《4000 在1000 日前 1000 经数据的证据** EWT(d)/EWT(1)/EWT(m)/EWP(f)/T-2 £ 29434-66 ACC NR AP6017840 SOURCE CODE: UR/0147/66/000/002/0143/0150 AUTHOR: Ivanov; V. L.; Manushin, E. A.; Lapin, Yu. D. ORG: none 8 TITLE: Some results of an experimental investigation of a cooled turbine SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 2, 1966, 143-150 TOPIC TAGS: gas turbine, high temperature turbine, turbine cooling, rotor blade, rotor blade cooling ABSTRACT: The cooling of a high-temperature turbine rotor with a natural-convection. liquid-cooling system has been investigated. The rotor blades were cooled by distilled water circulated by a high-pressure centrifugal pump. For measuring the temperature of the blades, 6 out of 30 rotor blades were equipped with three chromelalumel thermocouples each. Water consumption and the temperature were measured in the water loop at the intake and exit from the rotor. The gas parameters were measured in front and behind the turbine. The maximum relative error in determining the temperatures of the gas and the rotor-blade surfaces was within 4%, and in estimating the gas flow rate through the turbine,0.5%. Orig. art. has: 4 figures, SUB CODE: 21 SUBM DATE: 10May65/ ORIG REF: 004/ OTH REF: 005/ ATD PRESS:5009 [AV] UDC:

L 24684-66 ACC NR: AP6015525 SOURCE CODE: UR/0096/65/000/005/0007/0016 AUTHOR: Uvarov, V. V. (Doctor of technical sciences: Professor); Beknev, V. S. (Candidate of technical sciences); Mikhal'tsev, V. Ye. (Candidate of technical sciences); Chernobrovkin, A. P. (Candidate of technical sciences); Lapin, Yu. D. (Engineer); Cherepnin, L. S. (Engineer) ORG: MVTU im. Bauman TITIE: High-efficiency 200 megawatt gas-turbine installation SOURCE: Teploenergetika, no. 5, 1965, 7-16 TOPIC TAGS: gas turbine, electric power plant ABSTRACT: The advantages of building a high pressure non-regenerative 200 megawatt gas-turbine installation with an approximate weight factor of 3.5 kg/kw are described. This factor is 2.5 times smaller than in steam gas installations and seven times smaller than in steam power installations. Calculations indicate that a gas-turbine installation requires about 50% lower capital investment as compared to a steam power installation, lowers the volume and cost of the main structure three times and the cost per kilowatt-hour not less than 15%. The possibility of building powerful gasturbine installations with gas temperature of 750-800°C is indicated. Adoption of still higher temperature up to 1200°C, will increase the efficiency to 53-55% and double the power. Orig. art. has: 10 figures and 5 tables. [JPRS] SUB CODE: 10 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 001 Card 1/1 UDC: 621.438.001.5

ACC NRI AP7006676

(N)

BOURCE CODE: UR/0145/66/000/010/0070/0072

AUTHOR: Ivanov, V. L. (Candidate of technical sciences, Lecturer); Lapin, Yu. D. (Candidate of technical sciences)

ORG: None

TITLE: Heat exchange under conditions of free convection in a section of a channel with localized resistance

SOURCE: IVUZ. Mashinsotroyeniye, no. 10, 1966, 70-72

TOPIC TAGE: convective heat transfer, flow analysis, hydraulic resistance, Nusselt number

ABSTRACT: The authors consider the characteristics of free convective heat exchange in a section of channel with local hydraulic drag (channel inlet). The fundamental relationship for this section in the case of turbulent flow conditions is

$$Nu^* = \frac{Q}{\lambda \Delta t_n D} = f(\zeta) (Gr Pr^2)^{0.5},$$

where λ is the coefficient of thermal conductivity for the heat-exchange medium, Q is the thermal flux in the channel, Δt_{M} is the variation in the average temperature of the heat-exchange medium in the input section, D is the diameter of the channel in the

Card 1/2

UDC: 621.438

ACC NR: AP7006676

blade, Nu* is the conditional Nusselt number, $f(\zeta)$ is a function of the coefficient of local hydraulic resistance at the channel input (ζ) . It is shown that the function $f(\zeta)$ may be written as

$$f(C) = f_1 \left[\left(\frac{D}{d} \right)^2 \right].$$

Experimental studies on stationary models confirm this relationship. Experimental data reduced to dimensionless form are satisfactorily described by the equation

$$Nu^* = \frac{Q}{\lambda \Delta t_{\mu} D} = A (Gr Pr^2)^{0.5},$$

Where A is a coefficient which depends on area ratio F. Experimentally determined values of this coefficient are tabulated. The article was presented for publication by Doctor of technical sciences V. V. Uvarov, Professor at the Moscow Technical College im. N. E. Bauman. Orig. art. has: 1 figure, 1 table, 2 formulas.

SUB CODE: 20/ SUBM DATE: 30Nar66/ ORIG REF: 002

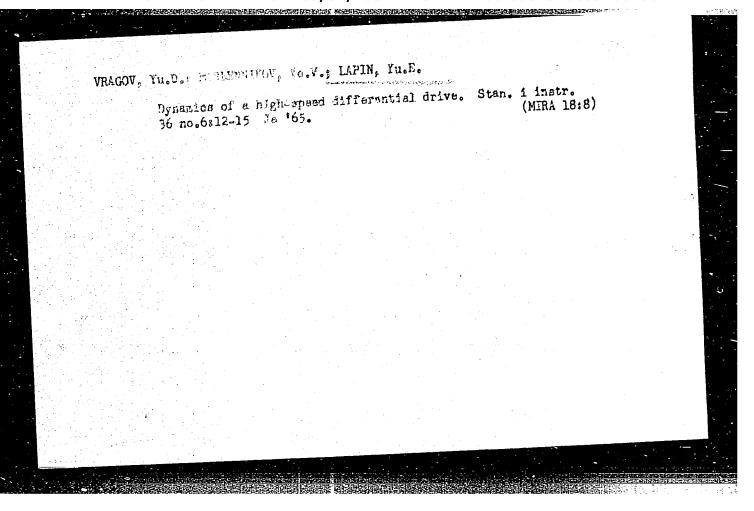
Card 2/2

VRAGOV, Yu.D.; LAFIN, Yu.E.; MEFED'YEV, V.S.

Probability method for determining speed characteristics of high-speed milling machines. Stan. 1 instr. 34 no.6:8-11 Je '63.

(MIRA 16:7)

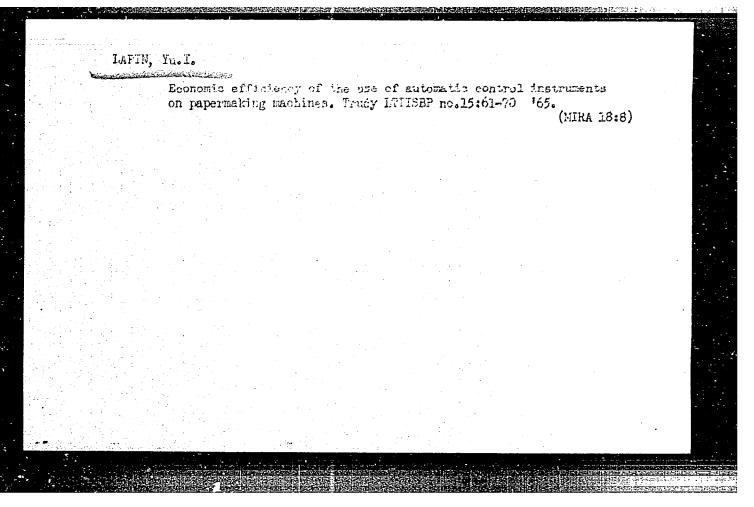
(Milling machines—Testing)

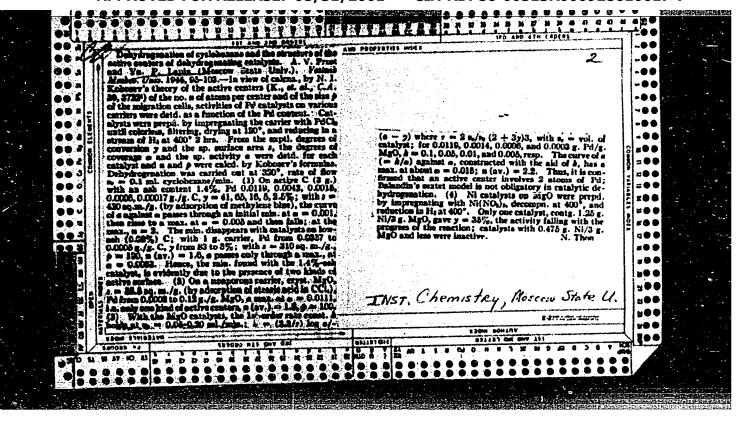


LAPIN, Yu.I., inzh.-ekonomist

Speed up the introduction of paper measuring by area. Bum. prom. 36 no.11:12-13 N '61. (MIRA 15:1)

1. Leningradskiy tekhnologicheskiy institut tsellyulozno-bumazhnoy promyshlennosti.
(Paper industry--Accounting)

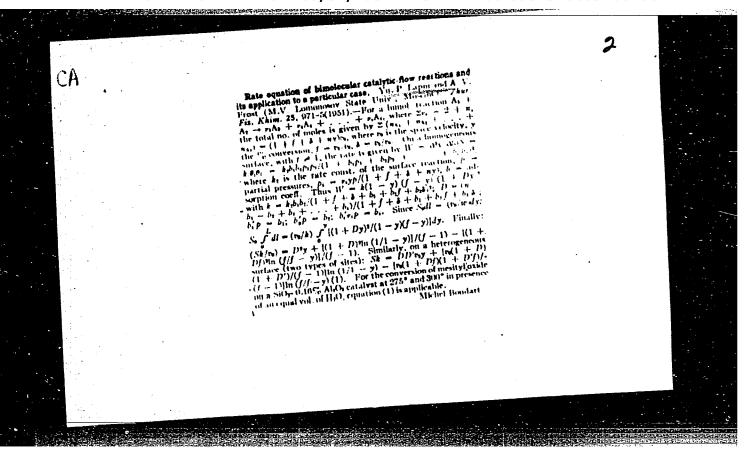




LAPIN, Yu. P.

"Investigation of the Decomposition Kinetics of Acetone and Mesityl Oxide Over Transparent Aluminosilicate Catalysts." Thesis for degree of Cand. Chemical Sci. Sub. 29 Jun 49, Moscow Order of Lenin State U imeni M. V. Lomonosov.

Summary 82, 18 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow, in 1949. From Vechernyaya Moskva. Jan-Dec 1949.



LAPIN, Yu.V. (Leningrad)

Morphogenesis of secondary calcification of the coronary arteries [with summary in English]. Arkh.pat. 21 no.1:3-9 '59. (MIRA 12:1)

l. Iz kafedry patologicheskoy anatomii (zav. - prof. H.A. Zakhar'yevskaya) I Leningradskogo meditsinskogo instituta imeni akad. I.P. Pavlova.

(CORONARY DISEASE, pathology, arteriosclerotic calcification (Rus))

LAPIN, Yu. V., Cand Med Sci (diss) -- "The morphogenesis of calcification on the venous arteries of the heart". Leningrad, 1960. 16 pp (First Leningrad Med Inst im Acad I. P. Pavlov), (KL, No 10, 1960, 136)